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Product datasheet for RG218971

AKAP14 (NM_001008534) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKAP14 (NM_001008534) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AKAP14
Synonyms:	AKAP28; PRKA14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG218971 representing NM_001008534
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTGAGACTCAAAATTCAACAAGCCAGAAAGCAATGGATGAGGATAACAAAGCCGCAAGCCAAACAA
TGCCGAATACACAAGACAAGAACTACGAGGATGAATTGACTCAAGTAGCTCTAGCTCTGGTTGAGGATGT
CATCAATTATGCTGTTAAGATTGTGGAAGAGGAGCGAAACCCTTTGAAAAACATCAAGTGGATGACTCAC
GGTGAATTCACTGTGGAAAAGGGTCTTAAACAAATTGACGAATATTTTTCGGATGCACCCATTGTTGTTT
CTTATGTAGGTGACCACCAAGCATTAGTTCACAGACCAGGAATGGTTCGCTTTCGAGAAAACTGGCAGAA
GAATCTTACTGATGCCAAATATAGTTTCATGGAGTCATTCCCCTTCTTATTCAATCGTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG218971 representing NM_001008534
Red=Cloning site Green=Tags(s)

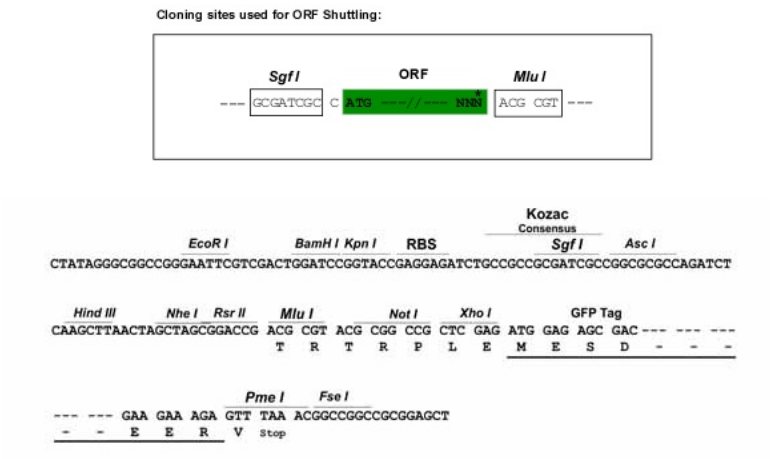
MSETQNSTSQKAMDEDNKAASQTMPNTQDKNYEDELTQVALALVEDVINYAVKIVEEERNPLKNIKWMTH
GEFTVEKGLKQIDEYFSDAPIVVSYVGDHQALVHRPGMVRFRENWQKNLTDAKYSFMESFPFLFNRV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

View online »

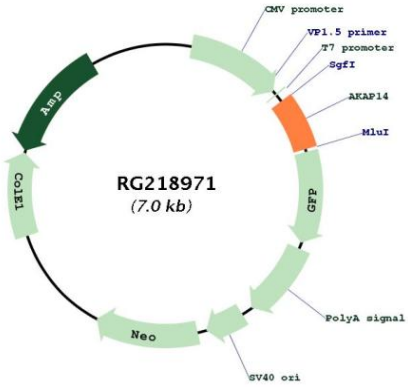
Cloning Scheme:



ACCN:	NM_001008534
ORF Size:	411 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001008534.1, NP_001008534.1
RefSeq Size:	675 bp
RefSeq ORF:	414 bp

Locus ID:	158798
UniProt ID:	Q86UN6
Cytogenetics:	Xq24
Protein Families:	Druggable Genome
Gene Summary:	The A-kinase anchor proteins (AKAPs) are a group of structurally diverse proteins, which have the common function of binding to the regulatory subunit of protein kinase A (PKA) and confining the holoenzyme to discrete locations within the cell. This gene encodes a member of the AKAP family. The protein anchors PKA in ciliary axonemes and, in this way, may play a role in regulating ciliary beat frequency. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG218971